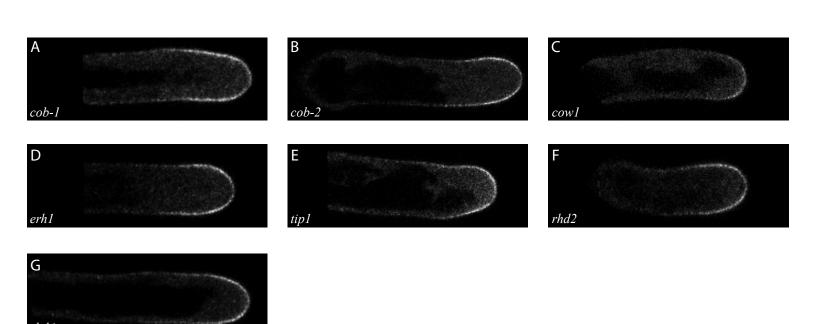
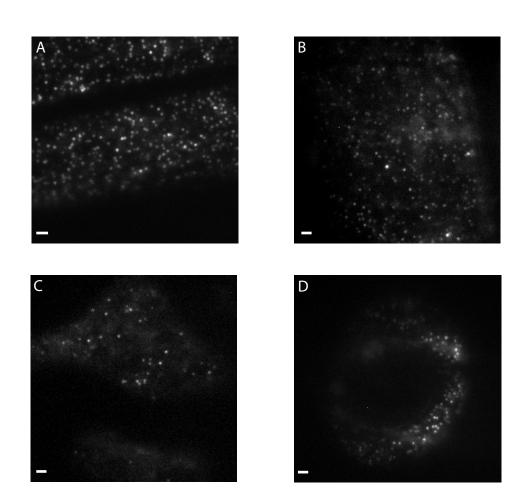


Supplemental Figure 1. DRP1C localizes to the plasma membrane in hypocotyls and does not associate with mitochondria. (A) Confocal section of a hypocotyl expressing DRP1-GFP (green). (B-C) Medial (B) and cortical (C) confocal section of an epidermal root cell expressing DRP1C-GFP (green) and incubated with 1 μ M MitoTracker Orange (red). (D) Medial confocal section of cortex cells of ss- β -ATPase-GFP (red) expressing roots, fixed and probed with α -DRP1C (green). Bars = 10 μ m.



Supplemental Figure 2. DRP1C-GFP retains its tip localization in several root hair expansion mutants. DRP1C-GFP was introgressed into several previously described root hair mutants and imaged by LSCM. Only actively growing root hairs were selected for imaging. (A) cob-1 (B) cob-2 (C) cow1 (D) erh1 (E) tip1 (F) rhd2 (G) rhd4.



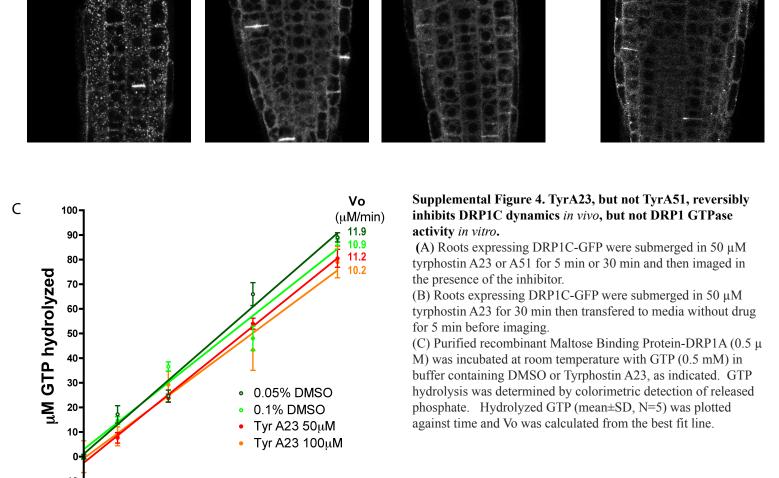
Supplemental figure 3: DRP1C-GFP forms cortical foci in various epidermal cells. Seedlings expressing DRP1C-GFP were imaged by VAEM. (A) Mature atrichoblast (B) Hypocotyl epidermal cells (C) Cotyledon leaf pavement cell. (D) Cotyledon guard cell. Scale bars = 1 μ m

Tyr A51 5 min Tyr A51

30 min

Tyr A23

washou



Time (min)